

FIGURE 1

LOCUS

Human AMP-activated protein kinase gamma 3 subunit (PRKAG3 gene), DNA 5'untranscribed-intron 2, 821 bp

FEATURES

5'UTR 313-331
exon 1 332-364
intron 1 365-726
exon 2 727-766
intron 2 767-821>

BASE COUNT 139 a 219 c 259 g 204 t

```
1 tctgagagcc caactctgct caatgaccat gttcccat gctccaagcc acatcccctc
61 aaaaagggtc cctctagctt gtctcagtg acccaggagg cagctgagga ccaagtaccc
121 agattatccg gtgcgcccct tccctcccag caacccccag ccttcagggc tgtagcagct
181 gagcaaatgg gggcccctcc ctctcattgc ctgacaccca atcagagaga aaccgatcct
241 ggcaaggcag ggtgcccggt gccgggccca gaatagtgc gccagccac agtgtcgcac
301 acttgctctc agttggtctg gggctggcca catggagccc gggctggagc acgcactgcg
361 cagggtatgg ggtcccagg ggagccggag ccggggcagc tgaggccaga agattgagcg
421 cacgggctgt gaatgtgtgt gtgggcgtgt gtgtcttctg gtgtgtgttt ggtctggatt
481 ttctcgtgaa tatgggcatg tgcattgttg gccatatgta ttgtgagtgt gtgtggttct
541 gtgtgcctgg gagtgtttgg atgtgtgtgt ttctgtgtgt gtttgtgtat ggctgcatgt
601 ctgtgtatgg cgtgtgtctg agcgtgtgta ttggtgtgca tgggtgtgta ggcgtgtgtt
661 cagggagaag ggttttgga atgtaaggca ctttccccac tccttcagaa actcttctcc
721 ccacagacct cttcctggag cagccttggg ggttctgagc atcaaggtag ggagaatgcc
781 cctccctggt ggctaacct cttccccac ttccttgtec c
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FIGURE 2

LOCUS

Human AMP-activated protein kinase gamma 3 subunit (PRKAG3 gene), DNA intron 2-intron 4, 989 bp

FEATURES

intron 2 <1-21
exon 3 22-177
intron 3 178-541
exon 4 542-945
intron 4 946-989>

BASE COUNT 229 a 306 c 286 g 168 t

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1  caggcccat  tccocttcca  gagatgagct  tcctagagca  agaaaacagc  agctcatggc
61 catcaccagc  tgtgaccagc  agctcagaaa  gaatccgtgg  gaaacggagg  gccaaagcct
121 tgagatggac  aaggcagaag  tcggtggagg  aaggggagcc  accagggtcag  ggggaagggtg
181 aggccaaaggc  cagttctggg  gaggtgggag  ccaggggagt  gggaaatccc  agaggagcct
241 gggctctggtc  tctacctcag  gtccctccat  aacacagagt  tggacccaac  cttcatcttg
301 tggcctcagt  ctccctacat  agtagagaac  aaggcactgc  agtgccagag  gccagcatgg
361 ccaactcaga  aagatgggac  agagccacta  cctggggcga  ctctcaggtc  agcccctcac
421 ctgcaaatag  ggccacagca  tccaggcttc  ccaactgctgc  tgtgagatga  atggcgacag
481 cagatgagaa  cgtgctttgg  aagatggagt  tactgtcttc  ttccctcct  cccccaaca
541 ggtccccggt  ccaggccagc  tgctgagtc  accgggctgg  aggccacatt  cccaagacc
601 acacccttgg  ctcaagctga  tctgcccggg  gtgggcactc  caccaacagg  gtgggactgc
661 ctcccctctg  actgtacagc  ctacagctga  ggctccagca  cagatgatgt  ggagctggcc
721 acggagttcc  cagccacaga  ggctgggag  tgtgagctag  aaggcctgct  ggaagagagg
781 cctgccctgt  gcctgtcccc  gcaggcccca  tttccaagc  tgggctggga  tgacgaactg
841 cggaaaccgc  gcgccagat  ctacatgcgc  ttcattcagg  agcacacctg  ctacgatgcc
901 atggcaacta  gctccaagct  agtcattctc  gacaccatgc  tggaggtag  gccacggctc
961 tgccaacct  gtactcactc  tccatccac
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FIGURE 3

LOCUS

Human AMP-activated protein kinase gamma 3 subunit (PRKAG3 gene), intron 4-intron 10, 1722 bp

FEATURES

intron 4 <1-13
 exon 5 14-95
 intron 5 96-552
 exon 6 553-611
 intron 6 612-736
 exon 7 737-782
 intron 7 783-986
 exon 8 987-1041
 intron 8 1042-1242
 exon 9 1243-1369
 intron 9 1370-1522
 exon 10 1523-1688
 intron 10 1689-1722>

BASE COUNT 321 a 504 c 534 g 363 t

```

1 cctggccct cagatcaaga aggccttctt tgctctggtg gccaacggtg tgcgggcagc
61 ccctctatgg gacagcaaga agcagagctt tgtgggtgag gagaggctgg ggaggtgaag
121 ggagatggag gaggtgaggg ggagatcttg tacggttggt ctggggctga tctctgatat
181 accacaagct tggttcaggg ccaagcccag ccaggggcca ggggtgagga aagtccatcc
241 ggagtctgca tggccagctg ggagaccctg gggtcaatt tccccatctg tggagccgct
301 atgaccagct gacacctttc acctccgcta ctgcatggcc ctgtgccata ggtgctaggg
361 agcaaatggg gggaggcagg agagaaaagag cccacttct caggcctggg gggctgcccc
421 actgtcctgt tcccacagtc cccactgtgt ctcagcacia ggacactggc aggggtgggga
481 ggggatctga cctcaacct gccttcacc caaaggcccc gggctgacct cctccccgcc
541 cctccccctg agggatgctg accatcactg acttcacctt ggtgctgcat cgctactaca
601 ggtccccctt ggtgaggagt gggctgggaa tcttatgggc acccagaggg gcgggggcgg
661 aggggagtc tcttgagacc tggtgcccta gaagcccacg tctttctgac ttctggagtc
721 ctgtcgatgt ctctaggtcc agatctatga gattgaacaa cataagattg agacctggag
781 ggggtgagtgg ggagaggaac ccggaagggt gctggttggtg atgggtggcc agggcttaag
841 gtggaggatg ggcagtgggg atgtcctgga gtgaacaggg gagggacaat agggacctcg
901 ggtgcctgac ggaagggaag ctgcctggga ctgcaagggt aggcaggtga ccggctcccc
961 tggcctgact ctggctcttt ctgcagagat ctacctgcaa ggctgcttca agcctctggt
1021 ctccatctct cctaatgata ggtgggtgtc tctgctcatt cacctgagcc tctcctccc
1081 acagtccctt tccccagtc cactcagctc tgaactcacc tcttcacctt aggcggcaca
1141 cagacaaggg agccttggtg ccctgcccct ctttttaggg gcctgggatg gaggttgtct
1201 ctccctaggg tgccccgagg ctcaactgctc ccatctctgc agcctgtttg aagctgtcta
1261 caccctcatc aagaaccgga tccatgcctt gcctgttctt gaccgggtgt caggcaacgt
1321 actccacatc ctcacacaca aacgcctgct caagttcctg cacatctttg taagcctggg
1381 ccaggtggg aggaaggggg agacctgggc aggtgatcag agggcctgag gagtcttcag
1441 ccctagcagt cgtggggaag agctgggagc cctcttgaag ctgctggatc cctgatctcc
1501 acctgtccc cactctaacc aggtgtccct gctgccccgg ccctccttcc tctaccgcac
1561 tatccaagat ttgggcatcg gcacattccg agacttggtg gtggtgctgg agacagcacc
1621 catcctgact gcactggaca tctttgtgga ccggcggtgt tctgactgct ctgtggtcaa
1681 cgaatgtggt acccaccccc aggatgagag gctcgggctg ga

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FIGURE 4

LOCUS

Human AMP-activated protein kinase gamma 3 subunit (PRKAG3 gene), intron 10-3'UTR, 1014 bp

FEATURES

intron 10 <1-41
exon 11 42-79
intron 11 80-249
exon 12 250-396
intron 12 397-739
exon 13 740-856
3'UTR 857-1014>

BASE COUNT 192 a 325 c 271 g 226 t

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1 cctgtctttc tccccccacc ccccaacaacc accctctgca ggtcaggctg tgggcctcta
61 ttcccgcctt gatgtgattg taagtgtcgc tggaaagggtg ggatgctgca gggaggctaa
121 ggggtgtggg atgggtgggg ggcctctgtg gaccaggggg accttgacaa gtatgcaggg
181 gttgacatct gtagggtagg agcccaggca aggggggtgac taggagccat acttctctct
241 ctgccccagc acctggctgc ccagcaaacc tacaaccacc tggacatgag tgtgggagaa
301 gccctgaggc agaggacact atgtctggag ggagtccttt cctgccagcc ccacgagagc
361 ttgggggaag tgatcgacag gattgtcctg gagcaggtag cgtgtgccct ccattcatgc
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481 cacctggcct atccttccat ttcatgacca actcctggtg cccacactgg cctgcacctg
541 gtcctgtcca tggggccctt atgccagggg tccactgcaa ctgatcacct taggccggtc
601 acaccatccc taactggttt ctaggagacg ctctctccct cagtcatgtt ggggtgtttc
661 ccctgattct tggcaccaac ctacagtagc gctgtagccc catggctctg cccctcact
721 gaacattgcg gacccacagg tacacaggct ggtgctagtg gacgagaccc agcatctctt
781 gggcgtggtc tccctctccg acatccttca ggcactggtg ctcagccctg ctggcatcga
841 tgccctcggg gcctgagaag atctgagtcc tcaatcccaa gccacctgca cacctggaag
901 ccaatgaagg gaactggaga actcagcctt catcttcccc caccgccatt tgctgggtca
961 gctatgattc aggtaggctc tgccctgggc catgacacca gcctcttagt cttc
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FIGURE 5

LOCUS

Human AMP-activated protein kinase gamma 3 subunit (PRKAG3 gene), cDNA including the complete cds, 1647 bp

FEATURES

CDS 20-1489

/note="predicted coding region"

/translation="MEPGLEHALRRTPSWSSSLGGSEHQEMSFLQENSSSWPSPAVTSSSERIRGKRRAKALRWTRQKS
VEEGEPGQGEGPRSRPAAESTGLEATFPKTTPLAQADPAGVGTPTGWDCLPDCTASAAAGSSTDDVELATEFPATEA
WECELEGLLEERPALCLSPQAPFPKLGWDELKPKGAQIYMRMQEHTCYDAMATSSKLVI FDTMLEIKKAFFALVANG
VRAAPLWDSKKQSFVGMILTITDFILVLHRYRSPVLQIYEIEQHKIETWREIYLQGC FKPLVSI SPNDSLFEAVYTLIK
NRIHRLPVLDPVSGNVLHILTHKRLKFLHIFGSLLPSPFLYRTIQDLGIGTFRDLAVVLETA PILTALDIFVDRRVS
ALPVVNECGQVVGLYSRFDVIHLAAQQTYNHLDMSVGEALRQRTLCLGVLSCQPHESLGEVIDRIAREQVHRLVLVDE
TQHLLGVVSLSDILQALVLS PAGIDALGA"

BASE COUNT 346 a 502 c 462 g 337 t

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1 ttggtctggg gctggccaca tggagcccgg gctggagcac gcactgcgca ggaccccttc
61 ctggagcagc ctgggggggt ctgagcatca agagatgagc ttcctagagc aagaaaacag
121 cagctcatgg ccatcaccag ctgtgaccag cagctcagaa agaatccgtg ggaaacggag
181 ggccaaagcc ttgagatgga caaggcagaa gtcggtggag gaaggggagc caccaggtca
241 gggggaaggt ccccggtcca ggccagctgc tgagtccacc gggctggagg ccacattccc
301 caagaccaca cccttggtc aagctgatcc tgccggggtg ggccactccac caacaggggtg
361 ggactgcctc ccctctgact gtacagcctc agctgcaggc tccagcacag atgatgtgga
421 gctggccacg gagttcccag ccacagaggc ctgggagtgt gagctagaag gcctgctgga
481 agagaggcct gccctgtgcc tgtcccgcga ggccccattt cccaagctgg gctgggatga
541 cgaactgcgg aaaccggcg cccagatcta catgcgcttc atgcaggagc acacctgcta
601 cgatgccatg gcaactagct ccaagctagt catcttcgac accatgctgg agatcaagaa
661 ggccttcttt gctctggtgg ccaacgggtg gcgggcagcc cctctatggg acagcaagaa
721 gcagagcttt gtggggatgc tgaccatcac tgacttcac ctggtgctgc atcgctacta
781 caggtccccc ctggtccaga tctatgagat tgaacaacat aagattgaga cctggaggga
841 gatctacctg caagctgct tcaagcctct ggtctccatc tctcctaata atagcctggt
901 tgaagctgtc tacaccctca tcaagaaccg gatccatcgc ctgcctgttc ttgacccggg
961 gtcaggcaac gtactccaca tcctcacaca caaacgcctg ctcaagttcc tgcacatctt
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1081 cacattccga gacttggtg tgggtgctga gacagcacc atcctgactg cactggacat
1141 ctttgtggac cggtgtgtgt ctgcaactgc tgtggtcaac gaatgtggtc aggtcgtggg
1201 cctctattcc cgctttgatg tgattcacct ggctgccag caaacctaca accacctgga
1261 catgagtgtg ggagaagccc tgaggcagag gacactatgt ctggaggagg tcctttcctg
1321 ccagccccac gagagcttgg gggaaagtgt cgacaggatt gctcgggagc aggtacacag
1381 gctggtgcta gtggacgaga cccagcatct cttgggcgtg gtctccctct ccgacatcct
1441 tcaggcactg gtgtcagcc ctgctggcat cgatgccctc ggggcctgag aagatctgag
1501 tcctcaatcc caagccacct gcacacctgg aagccaatga aggggaactg agaactcagc
1561 cttcatcttc cccaccccc atttgctggt tcagctatga ttcaggtagg ctctgcctcg
1621 ggcatgaca ccagcctctt agtcttc
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